



BASE BAND RESOURCE DISTRIBUTION UNDER C-RAN

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Abstract- Aim to cost of wireless operators constantly increases but income increases slowly, this paper researches cloud wireless access network (C-RAN) based on concentrated resources pool, proposes a dynamic projection model combined with base band processing unit (Building Base band Unit, BBU) and remote radio unit (Radio Remote Unit, RRU), designs base band resource allocation method, according to cloud calculation and C-RAN technology which introduced in this paper, through calculation and analysis, results show that using heuristic order-decreasing first-fit algorithm as the pre-allocation algorithm can distribute base band resource properly and realize dynamic scheduling under C-RAN, which is practical and feasible to improve utilization of base band resource and reduce power consumption.

Index terms: Dynamic projection; resource scheduling; C-RAN; BBU; RRU.